

ABSTRACT

An objective of the present invention is to provide an aluminum nitride sintered body making it possible to keep a volume resistivity of $10^6 \Omega \cdot \text{cm}$ or more, and guarantee covering-up capability, a large radiant heat amount and measurement accuracy with a thermoviewer. A carbon-containing aluminum nitride sintered body of the present invention of the present invention comprising: carbon whose peak cannot be detected on its X-ray diffraction chart or whose peak is below its detection limit thereon; in a matrix made of aluminum nitride.

Related Pending ApplicationRelated Case Serial No: 10732, 296Related Case Filing Date: 12-11-03

ABSTRACT

The present invention provides a ceramic substrate which can keep a sufficiently large breakdown voltage even if the pore diameter of its maximum pore is 50 μm or less to be larger than that of conventional ceramic substrates, can give a large fracture toughness value because of the presence of pores, can resist thermal impact, and can give a small warp amount at high temperature. The ceramic substrate of the present invention is a ceramic substrate for a semiconductor-producing/examining device having a conductor formed on a surface of the ceramic substrate or inside the ceramic substrate, wherein: the substrate is made of a non-oxide ceramic containing oxygen; and the pore diameter of the maximum pore thereof is 50 μm or less.

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Related Pending ApplicationRelated Case Serial No: 10/746,081Related Case Filing Date: 12-29-03

ABSTRACT

An object of the present invention is to provide a ceramic heater making it possible to heat the whole of a subject to be heated uniformly. The ceramic heater of the present invention is a ceramic heater wherein a resistance heating element is arranged on a surface of a disc-shaped ceramic substrate or inside the substrate, characterized in that the resistance heating element is composed of a mixture of a resistance heating element having a concentric or spiral pattern and a resistance heating element having a pattern of repeated winding lines.

Related Pending Application
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